

N<sup>o</sup> 13,831



A.D. 1899

*Date of Application, 4th July, 1899—Accepted, 5th Aug., 1899*

COMPLETE SPECIFICATION.

**Improvements in and relating to Tooth Brushes.**

I, CHARLES WESTLEY RICHARDS, of No. 47, Post Street, in the City and County of San Francisco, State of California, U.S.A., Dentist, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

5 My invention relates to a brush for cleansing the teeth, and to a novel construction and mounting of the same. It consists essentially of a flexible tubular tip having peculiarly shaped and angularly pointed flexible teeth, a handle with a concavo-convex curvature of the end adapted to fit the interior of the tip, and means for securing the tip to the handle.

10 The tip may also be fitted directly to the end of the finger of the person using it, if desired.

Referring to the accompanying drawings,—Figure 1 shows the removable tip fitted upon the handle of the brush. Figure 2 shows the tip having the side from which the teeth project carried out in a straight line, and the outer end  
15 of the teeth forming a concaved surface. Figure 3 is an enlarged view of one of the teeth showing the formation of the point.

The object of my invention is to provide a convenient device for cleansing the teeth, with means for applying it to the finger, or to any desired handle.

20 A represents the body portion of the tip which is formed preferably of rubber, gutta percha, or any suitable soft material, but it may also be made of aluminium, celluloid, or other material, if preferred.

This tip is closed at the outer end, and is of a size dependent upon the manner of its use. If intended to be used upon the finger, it forms a sort of cot which may be slipped on or off the end of the finger at will.

25 If it is to be used upon a handle, such as is shown at C, the handle is preferably made with a concavo-convex curve at the end, and the tip A may be slipped upon this portion which is preferably so made that the teeth will appear upon the inner concave surface so as to more particularly fit the mouth when used upon the teeth.

30 Around the handle C is a projecting ridge or collar D at such a point that when the tube has been forced on to the handle, the inner end will pass a short distance beyond the collar and will contract into the smaller portion of the handle which is behind this collar, leaving the collar projecting into and distending the tube just inside the inner end, so that it serves to bind and hold  
35 the tube firmly in place upon the handle.

I preferably make the handle flat so that the ends of the teeth will form a comparatively flat or concaved surface.

40 When the device is fitted to slip upon the finger, it is preferable to make the side of the tube with a flattened surface extending out even with the end as shown at *a*, and the teeth are preferably made longer at the outer end *b* curving thence to form a concave form from this point to the inner end as shown at *b*<sup>2</sup>; this provides a more flattened surface to contact with the teeth, which is much superior for the purposes desired.

[Price 8d.]

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*Richards's Improvements in and relating to Tooth Brushes.*

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In order to make the brush teeth particularly effective and allow the ends to enter the cracks and concavities between and in the teeth and to perfectly cleanse them, I have shewn the points as made with angular flat surfaces converging from the round bodies of the teeth to a point as shown at *b*<sup>1</sup>. The tooth-brush being made in this way will enter all the irregularities and concavities 5 of the teeth within the mouth of the person using it, and is more particularly serviceable in cleansing.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

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A tooth brush comprising a tube or cot, a handle to which the tube is fitted having a collar or enlargement over which the inner end of the tube is clasped, the flattened concaved side of the tube having teeth integral therewith and projecting outwardly therefrom.

Dated this Fourth day of July 1899.

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For the Applicant,

GEDGE & FEENY,

Chartered Patent Agents, 60, Queen Victoria Street, London, E.C.

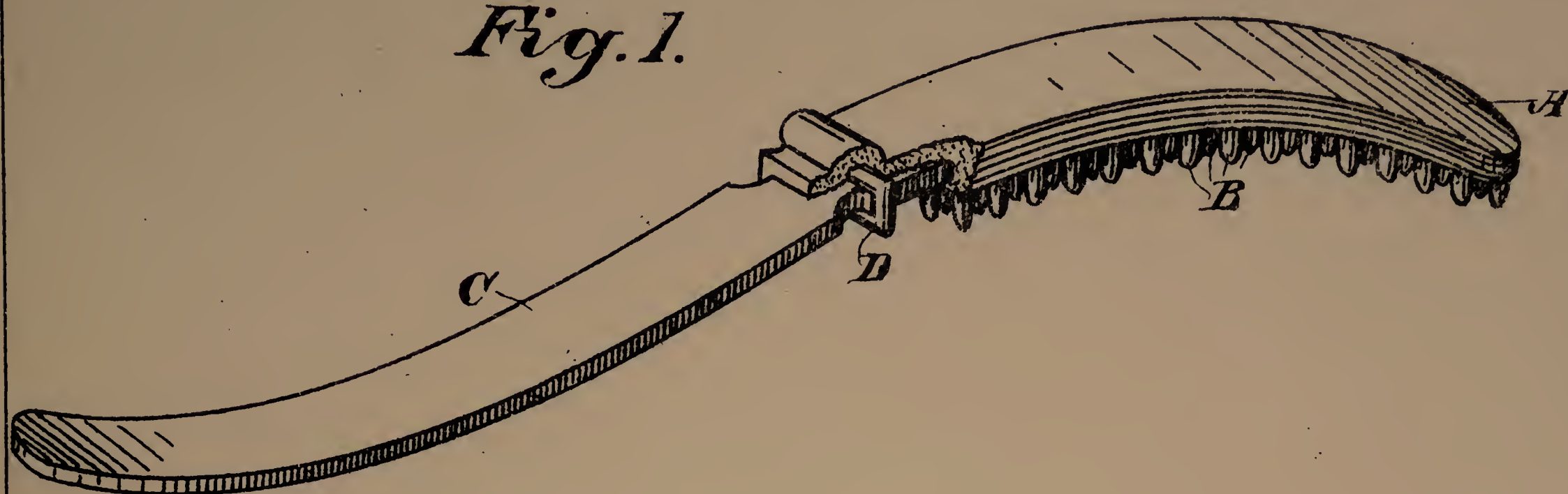
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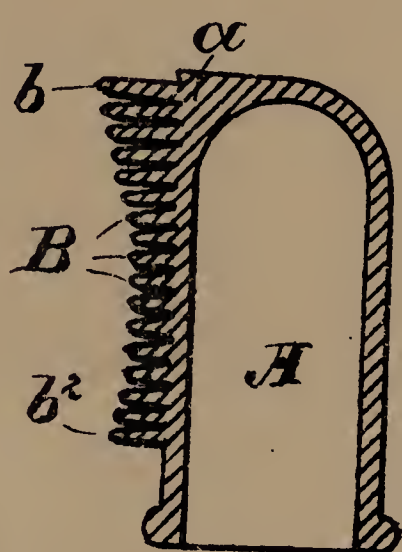




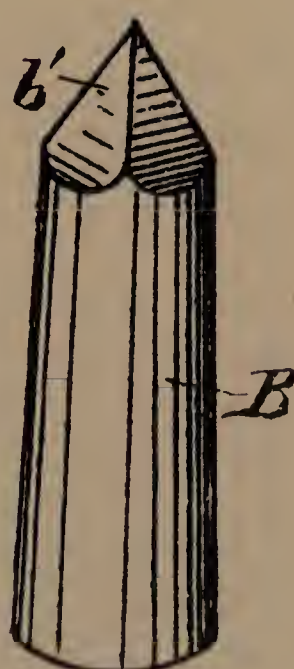
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



[This Drawing is a reproduction of the Original on a reduced scale.]

